

TABLE C.4.1-4.—Monthly Results for Physical and Chemical Characteristics of the Lawrence Livermore National Laboratory Sanitary Sewer Effluent, 2002^a

	Detection Frequency ^b	Minimum	Maximum	Median	IQR
24-Hour Composite Sample Parameter (mg/L)					
Alkalinity (mg/L)					
Bicarbonate alkalinity (as CaCO ₃)	12 of 12	175	300	250	24.0
Carbonate alkalinity (as CaCO ₃)	2 of 12	<5	55.0	<5	^c
Total alkalinity (as CaCO ₃)	12 of 12	230	300	250	22.5
Anions (mg/L)					
Bromide	10 of 12	<0.1	1.1	0.25	^c
Chloride	12 of 12	41	114	61	28
Fluoride	10 of 12	<0.05	2.3	0.11	^c
Nitrate (as N)	1 of 12	<0.1	<1	<0.44	^c
Nitrate (as NO ₃)	1 of 12	<0.04	<4.4	<4.4	^c
Nitrate plus Nitrite (as N)	2 of 12	<0.1	<1	<1	^c
Nitrite (as N)	8 of 12	<0.02	0.33	0.19	^c
Nitrite (as NO ₂)	8 of 12	<0.065	1.1	0.63	4.3
Orthophosphate	12 of 12	15	23	20	2.3
Sulfate	12 of 12	12	19	15	
Nutrients (mg/L)					
Ammonia nitrogen (as N)	12 of 12	43	56	47	5.0
Total Kjeldahl nitrogen	12 of 12	49	95	60	11
Total phosphorus (as P)	12 of 12	6.8	14	9.8	2.6
Oxygen demand (mg/L)					
Biochemical oxygen demand	12 of 12	100	810	333	107
Chemical oxygen demand	12 of 12	145	1,780	602	121
Solids (mg/L)					
Settleable solids	12 of 12	4	90	40	11.3
Total dissolved solids	12 of 12	165	413	256	78.5
Total suspended solids	12 of 12	88	650	385	138
Volatile solids	12 of 12	140	913	480	142
Total metals (mg/L)					
Aluminum	12 of 12	0.30	0.80	0.49	0.16
Calcium	12 of 12	15	27	18	2.3
Iron	12 of 12	1.0	2.5	1.6	0.30
Magnesium	12 of 12	2.5	3.0	2.8	0.15
Potassium	12 of 12	19	26	22	2.0
Selenium	2 of 12	<0.002	<0.02	<0.002	^c
Sodium	12 of 12	35	87	47	15
Total organic carbon	12 of 12	39	56	53	6.3
Tributyltin^d	1 of 2	<6	10	^e	^c